



Properties of Texanol - Eastman

Texanol Ester-Alcohol (2,2,4-trimethyl-1,3-pentanediol monoisobutyrate)

CAS 25265-77-4

Typical Properties^a

Molecular wt (C ₁₂ H ₂₄ O ₃)	216.3
Color (Pt-Co scale), max.	10
Specific gravity @ 20°C/20°C	0.95
Weight/vol @ 20°C	
kg/L	0.95
lb/gal	7.90
Solubility @ 20°C, wt %	
In water	Insoluble
Water in	0.9
Evaporation rate (n-butyl acetate = 1)	0.002
Refractive index @ 20°C	1.4423
Vapor pressure @ 25°C, mm Hg (Pa)	0.013 (1.73)
Vapor pressure @ 20°C, mm Hg (Pa)	0.010 (1.33)
Boiling range @ 760 mm Hg, °C	
Initial boiling point	255
Dry point	260.5
Freezing point, °C (°F)	-50 (-58)
Flash point	
Cleveland Open Cup, °C (°F)	120 (248)

^aProperties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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Applications

Texanol ester-alcohol is particularly effective in protecting latex paints against failure caused by application under adverse conditions such as high humidity and low temperature. A high percentage of paint failures are caused by this problem, but in laboratory tests as well as in actual use, *Texanol* has given outstanding film coalescence under adverse application conditions.

Texanol is also used as a slow-evaporating solvent in polyester coil coatings, electrode-position coatings, high-bake enamel coatings, and printing inks. It is used as a defoamer in waterborne systems and in drilling muds for the oil industry.

With its unusual molecular structure, *Texanol* ester-alcohol is an intermediate useful in chemical synthesis. The combination of the hydroxyl group, ester linkage, high molecular weight, and presence of the stable neopentyl configuration offers distinct advantages in the synthesis of ester derivatives for such applications as stain-resistant plasticizers, lubricant base stocks, synthetic detergents, and herbicides.

Texanol ester-alcohol undergoes many of the usual reactions of secondary alcohols. Its high molecular weight results in relatively nonvolatile esters with high boiling points, and the neopentyl portion of the molecule contributes to the thermal and hydrolytic stability of the derivatives.

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■ NORTH AMERICA

Eastman Chemical Company Corporate Headquarters

P.O. Box 431
Kingsport, TN 37662-5280 U.S.A.

Telephone:
U.S.A. and Canada, 800-EASTMAN (800-327-8626)
Other Locations (1) 423-229-2000
Fax: (1) 423-229-1673

<http://www.eastman.com/cirbo>

Technical Service Centers Outside U.S.A.

Liverpool, ENGLAND

Telephone: (44) 1-51-547-2002

Singapore, SINGAPORE

Telephone: (65) 275-6881

Material Safety Data Sheets providing safety precautions that should be observed in handling and storing Eastman products are available on request. You should obtain and review the available material safety information before handling any of these products. If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

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